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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,568	05/14/2004	Anchor Chen	NAUP0486USA4	3567
27765	7590 10/20/2006		EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			LUU, CHUONG A	
P.O. BOX 50 MERRIFIEL	D, VA 22116		ART UNIT	PAPER NUMBER
			2818	<u> </u>
			DATE MAILED: 10/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/709,568	CHEN, ANCHOR
Office Action Summary	Examiner	Art Unit
	Chuong A. Luu	2818
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 8/3/2 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	s action is non-final. nce except for formal matters, pr	•
Disposition of Claims		
4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-27 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) according and applicant may not request that any objection to the	wn from consideration. or election requirement. er. epted or b) objected to by the drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	, , ,	•
Priority under 35 U.S.C. § 119		•
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)		
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-27 have been considered but are moot in view of the new ground(s) of rejection.

PRIOR ART REJECTIONS

Statutory Basis

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The Rejections

Claims 1-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Chuang et al. (U.S. 20030096486 A1).

Chuang discloses a self-aligned bipolar transistor with

(1); (7); (14); (21) a substrate (18);

a dielectric layer (19) formed on the substrate (18);

an opening (23) formed in the dielectric layer (19) to expose a

portion of the substrate (18) (see Figures 2A-2H);

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a semiconductor layer (24) formed on a sidewall and a bottom of the opening (23), the semiconductor layer extending (24) outside the opening (23) and above the dielectric layer (19) (see Figures 2A-2H);

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a spacer (25) formed on the semiconductor layer (24) to define a self-aligned emitter region in the opening (23);

an emitter conductivity layer (26) being filled into the self-aligned emitter region, and a PN junction being formed between the emitter conductivity layer (26) and the semiconductor layer (24) (see Figures 2A-2H)

a salicide layer (27) formed on the emitter conductivity layer (26) and on the portion of the semiconductor layer (24) extending outside the opening (23) and above the dielectric layer (19) (see Figures 2A-2H);

- (2) wherein the semiconductor layer comprises at least one material selected from a material group consisting of silicon epitaxy, GaAs, InP and AlGaAs (see Figures 2A-2H);
- (3) further comprising a selective implant collector region formed in the substrate beneath the semiconductor layer (see Figures 2A-2H);
- (4) further comprising an extended conductivity layer formed on the dielectric layer to connect to the semiconductor layer (see Figures 2A-2H);
- (5) further comprising an oxide layer and a silicon nitride layer formed between the extended conductivity layer and the dielectric layer (see Figures 2A-2H);
- (6); (13); (27) wherein the extended conductivity layer is composed of polysilicon (see Figures 2A-2H);

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(8) further comprising a selective implant collector region formed in the substrate beneath the GaAs layer (see Figures 2A-2H).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong A. Luu whose telephone number is (571) 272-1902. The examiner can normally be reached on M-F (6:15-2:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong Anh Luu Patent Examiner October 13, 2006